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Technical Skills

- JavaScript
- Next JS
- Python
- REST API
- Mongo DB
- Google Cloud Services
- Tailwind CSS
- Figma

I am a dedicated and innovative individual with expertise in full-stack development, problem-solving, and teamwork. My projects reflect a high level of proficiency in leveraging modern tools and technologies such as React, Ballerina, MongoDB, Python and Docker to build scalable and impactful solutions.

Related Projects

3D personal portfolio

Individual

Developed a stunning personal portfolio website featuring animated 3D visual elements and seamless user interactions.



URL shortening web application

Individual

Simple URL Shortener for everyday tasks. It is designed to short URLs instantly with user-friendly interface and experience.



Real time web-based chat application

Team

This Ballerina application demonstrates the power and flexibility of the Ballerina language in building backend services.



Education

University of Sri Jayewardenepura

2021 - Current

Bachelor of Information and Communication Technology

Udabadalawa Collage of Kurunegala

2018 - 2020

Certificate in GCE Advanced Level

Pimburuwellegama Collage of Kurunegala

2005 - 2017

Certificate in GCE Ordinary Level

References

Diverse Project Insights

3D personal portfolio

Full-stack development Individual 2025

Developed a personal portfolio website with animated 3D visuals and seamless interactions using **React**, **Three.js**, and **Framer Motion**. Enhanced animations with **GSAP** for smooth transitions and optimized performance with **Vite**. Styled the interface using **Tailwind CSS** to create a responsive and visually appealing design.



Plugin for Vite developers

500+ downloads Individual 2025

Created a Vite plugin that generates QR codes for network URLs during development, enabling quick and easy mobile access. Published as an npm package for seamless integration into Vite-based projects. This plugin streamlines the testing process on mobile devices by automating QR code generation for local development servers.



Social media links sharing platform

Front-end development Individual 2025

Designed a user interface for a social media links sharing platform using **React** and **Material-UI**, focusing on clean aesthetics and responsive layouts. Utilized **Vite** for fast prototyping and performance optimization during development. The design emphasizes simplicity and ease of navigation, providing a foundation for future functionality.



Online bus ticket booking application

Full-stack development Team 2024

Developed a web application to simplify online bus ticket booking with features like searching buses by origin, destination, and travel date. Created a user-friendly interface for browsing available buses, selecting seats, and completing reservations using **React**, **CSS**, **HTML**, and **React-Bootstrap**. Integrated backend functionality with **Node.js** and **MongoDB**, utilizing the **MERN stack** for a seamless user experience. Employed **Axios** for efficient API communication, ensuring smooth data retrieval and reservation management.



Campus facilities monitoring system

Full-stack development Team 2024

Developed a real-time monitoring platform for campus facilities, including the library, medical center, and canteens, at the University of Sri Jayewardenepura. Built a responsive user interface using **React** and **Vite** to provide students, staff, and administrators with actionable insights for resource management. Integrated backend services with **Node.js**, **Express**, and **MongoDB** to handle real-time data processing and storage. Utilized **Docker** for containerized deployment and hosted the application on **Google Cloud** for scalability. Employed **Postman** for API testing and validation, ensuring seamless communication between system components.



Diverse Project Insights

iPhone 15 Pro 3D website clone

Front-end development Individual 2024

Recreated the iPhone 15 Pro 3D website from scratch, delivering an immersive and interactive user experience. Built using **React** and **Three.js** for advanced 3D animations and visual effects. Integrated **GSAP** for smooth animations and transitions, enhancing the website's dynamic feel. Styled with **Tailwind CSS** to ensure a responsive and visually appealing design. Incorporated **Sentry** for monitoring and debugging, ensuring optimal performance and reliability.



Fuel pass web application clone

Full-stack development Individual 2022

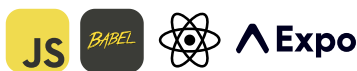
Developed a clone of the FuelPass web application, replicating its core design and functionality. Built with **React** and **JavaScript** to create a dynamic and interactive user interface. Utilized **Bootstrap** for responsive and mobile-friendly layouts, ensuring accessibility across devices. The project showcases skills in UI/UX replication and front-end development.



Job finder mobile app

Full-stack development Individual 2024

Recreated a mobile app for job searching using **React Native** and **Expo**, delivering a seamless cross-platform experience. Built with **JavaScript** and **Babel** for clean, maintainable code and efficient development. Integrated **Node.js** for backend functionality, ensuring smooth data handling. The project highlights expertise in mobile app development and modern UI/UX design.



Real time web-based chat application

Full-stack development Team 2024

Developed a web-based chat application showcasing the power and flexibility of **Ballerina** in building backend services. Integrated **MongoDB** for efficient data storage, with **Express** and **Socket.io** enabling real-time communication. Built the frontend using **Next.js** and styled it with **Tailwind CSS** for a modern and responsive user experience. Utilized **Docker** for containerization and deployed the application on **Google Cloud Platform** for scalability and accessibility. Validated APIs and functionalities with **Postman**, ensuring a seamless and robust chat experience.



Power outage notification system

Full-stack development Individual 2022

Developed a desktop application to provide timely notifications about scheduled power outages when the economic crisis time period in the Sri Lanka 2022, helping users prepare for electricity blackouts. Built using **Electron** and **Node.js** for cross-platform functionality and efficient desktop app development. Designed an intuitive interface with **HTML**, **CSS**, **Bootstrap**, and **jQuery** for seamless user interaction. Leveraged **Python** scripts for schedule data processing and utilized **npm** for efficient package management. The application addresses a critical need by offering a user-friendly solution for power outage awareness.



Diverse Project Insights

Stone-images API for GitHub profile

Full-stack development Individual 2025

Developed a customizable API to generate contributor images for GitHub profile README files, showcasing the top 10 contributors in an engaging way. Built using **React** and **Next.js** for dynamic rendering, with **TypeScript** ensuring robust and type-safe development. Styled the interface with **Tailwind CSS** for a sleek and responsive design. Implemented core logic in **JavaScript**, highlighting expertise in modern front-end and API development. This project enhances GitHub profiles by visually representing contributor recognition.



AI-Powered podcast platform

Full-stack development Individual 2024

Developed a cutting-edge AI SaaS platform that empowers users to create, discover, and enjoy podcasts with advanced features. Integrated **OpenAI** for text-to-audio conversion with multi-voice AI, enabling dynamic podcast creation. Implemented podcast thumbnail image generation and seamless playback for an enhanced user experience. Built the platform with **Next.js** and **TypeScript** for scalability and type safety. Utilized **Convex** for robust backend functionality and **Clerk** for secure user authentication. Styled with **ShadCN** and **Tailwind CSS** to deliver a modern and visually appealing design.



Financial SaaS Platform

Full-stack development Individual 2024

Developed Horizon, a financial SaaS platform designed to streamline personal finance management. The platform connects to multiple bank accounts using **Plaid**, enabling real-time transaction monitoring. Implemented seamless peer-to-peer money transfers through **Dwolla** integration. Built with **Next.js** and **TypeScript** for scalability, with **Appwrite** providing backend services. Ensured robust form handling with **React Hook Form** and **Zod**, enhancing user experience. Visualized financial data using **Chart.js**, complemented by a modern UI crafted with **ShadCN** and **Tailwind CSS** for an intuitive and aesthetic interface.



URL shortening web application

Full-stack development Individual 2025

Developed a user-friendly URL shortener for everyday tasks, enabling instant URL shortening with a seamless interface and smooth user experience. Built with **TypeScript**, **Next.js**, and **React** for efficient front-end performance, integrated **MongoDB** for data storage, and styled using **Tailwind CSS** for a modern and responsive design.



Quiz Mobile App

Back-end development Team 2024

Developed a flexible and engaging quiz mobile application with a seamless user experience, using **Dart** and **Flutter** for the front-end, ensuring smooth cross-platform performance on both Android and iOS devices. The backend is powered by **Node.js** and **Express**, enabling efficient user authentication, real-time data processing, and dynamic quiz management. Integrated **MongoDB** for data storage, providing fast and scalable access to quiz data and user results. This full-stack approach ensures a cohesive and interactive experience for users from quiz creation to result tracking.



Side Projects Insights

C++ array operations



Created a collection of **C++** programs demonstrating practical operations with arrays, including sorting, hash table creation, moving averages, matrix multiplication, and basic image processing with filters. These programs showcase efficient algorithm design and optimization for diverse use cases.

Spotify web UI clone



Developed a UI clone of Spotify's web version using **HTML** and **CSS**. Focused on replicating the design, layout, and aesthetics to provide a user experience while improving front-end development skills.

Exam result service - Sri Sumangala School



Developed a web-based exam result service for Sri Sumangala School using **HTML**, **CSS**, and **JavaScript**. The project enables efficient result management and provides a user-friendly interface for viewing and accessing exam results seamlessly.

"Hasna" project - Sri Sumangala School



Developed a web platform for Sri Sumangala School to create and share Sinhala and Tamil New Year wishes using **HTML**, **JavaScript**, and **MongoDB**. The project fosters cultural connection through personalized and easily shareable greetings.

Real-time battery monitor



Built a lightweight tool in **Python** to monitor battery status in real-time. Features include alerts for full charge or low battery and tips to optimize battery usage, ensuring efficient power management.

spotifymate.com automation tool



Created a **Python** automation script using **Selenium** to interact with spotifymate's web interface. It inputs a Spotify track URL, automates the retrieval of the download link, and handles dynamic elements with timeouts, ensuring seamless operation in headless mode.

In-network professional chat application



Developed a professional chat application using **Python** and **Socket.IO** to facilitate seamless communication within the same network. The project enables real-time messaging with efficient data handling and low latency, promoting collaboration in shared environments.

Slot machine simulator



Developed a console-based slot machine game using **Go**. The application simulates a realistic gaming experience, allowing users to place bets, spin reels, and win based on matching symbols. Incorporates map structures for symbol multipliers and arrays for dynamic reel generation, providing an engaging and functional gaming experience.

Side Projects Insights

Student management system



Developed a Student Management System (SMS) in **Java** to manage students, teachers, courses, and grades. The application includes functionalities such as student and teacher registration, attendance tracking, course creation, and grade management. Utilizes object-oriented principles with classes like Student, Teacher, Course, and Grade to maintain structure and organization. The program flow is controlled by a Main class, providing an intuitive menu interface for navigation.

Console-based applications



Developed a collection of practical **C** programs to streamline tasks such as student performance analysis, inventory management, and average mark calculation. The Student Mark Analyzer helps educators quickly assess student performance, the Inventory Management System simplifies stock management for store owners, and the Average Marks Calculator provides an easy solution for calculating the average marks of up to 10 students. All programs feature smart validation, user-friendly interfaces, and clear output formatting.

Book inventory management system



Developed Flare, a comprehensive Book Inventory Management System in **C#** designed for bookstores, libraries, and educational institutions. This system facilitates efficient management of book inventories by providing easy-to-use functionalities to add, remove, and update books. It helps streamline the tracking of book details, ensuring seamless record management and improved efficiency for institutions and businesses.

K-Nearest Neighbors (KNN) algorithm for diabetes prediction



Developed a Diabetes Prediction System using the **K-Nearest Neighbors** (KNN) algorithm in **Python**. This machine learning-based system utilizes **scikit-learn** to predict the likelihood of diabetes in individuals based on medical features. The implementation covers data preprocessing, feature scaling, model training, and evaluation through confusion matrix analysis. The model's effectiveness is evaluated using various accuracy metrics to ensure optimal prediction performance.

Convolutional Neural Network (CNN) algorithm for skin cancer classification



Developed a **CNN**-based skin cancer classification system to distinguish between malignant and benign skin cancer images. Using **TensorFlow**, **Keras**, **NumPy**, and **Matplotlib**, the model was trained on a Kaggle dataset and evaluated for accuracy. The architecture involved convolutional and pooling layers for feature extraction, followed by dense layers for classification. Preprocessing included image rescaling and augmentation techniques like shearing, zooming, and flipping. The model was optimized with the Adam optimizer and evaluated based on binary cross-entropy loss and accuracy metrics.

Reimagining the Hutch mobile app



Redesigned the Hutch Mobile App with a focus on modern UI/UX design principles using **Figma**. The redesign features simplified navigation, a minimalist yet vibrant aesthetic, and improved data representation for clearer package information. The goal was to create an intuitive and visually appealing user experience, enhancing the app's overall usability while maintaining its core functionalities. The project showcases a strong focus on design thinking and delivering user-centric solutions.